

Attorney Docket No. 262/014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of

Byung-Hee KIM, et al.

Group Art Unit: 2822

Serial No. 10/035,257

Examiner: M. Guerrero

Filed: January 4, 2002

For: METHOD OF FABRICATING METAL LINES IN A SEMICONDUCTOR DEVICE

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.56**Commissioner for Patents  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 (or PTO-1449, *modified*) is a listing of a document(s) known to applicant in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. §1.56.

- A copy of each listed document is being submitted to comply with the provisions of 37 C.F.R. §§1.97 & 1.98. [Box checked if applicable.]
- A copy of each listed non-U.S. patent and/or patent publication and cited literature is being submitted to comply with the provisions of 37 C.F.R. §§1.97 & 1.98. Cited U.S. patents and patent publications are *not* attached in accordance with the waiver set forth in the Notice by the Deputy Commissioner for Patent Examination Policy dated July 11, 2003, applicable to applications having a U.S. filing date *after* June 30, 2003. [Box checked if applicable.]

\* \* \*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action that would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

- The listed document(s) is/are being submitted in compliance with 37 C.F.R. 1.97(b)(3): submission before the mailing date of the first action on the merits. [Box checked if applicable.]
- The foregoing document came to applicant's attention during the prosecution of their corresponding \_\_\_\_\_ application.  A copy of the \_\_\_\_\_ Search Report is also attached. [Box(es) checked if applicable.]

#### CERTIFICATION

- The undersigned hereby certifies in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Statement. [Box checked if applicable.]

\* \* \*

Applicant respectfully requests that the listed document(s) be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

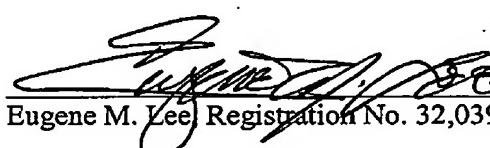
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#### FEE PAYMENT

- The fee mandated by 37 C.F.R. §1.17(p) is believed applicable. [Box checked if applicable.]
- Attached is a check in payment of this fee (\$180.00). [Box checked if applicable.]
- This fee may be charged to Deposit Account No. 50-1645. (A duplicate copy of this paper is enclosed.) [Box checked if applicable.]

Respectfully submitted,

April 14, 2004  
Date

  
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#### DEPOSIT ACCOUNT CHARGE AUTHORIZATION

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the above-paper may also be charged to Deposit Account No. 50-1645.

Sheet 1 of							
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE			ATTY DOCKET NO. 262/014		SERIAL NO. 10/036,257		
			APPLICANT Byung-Hee Kim et al.				
			FILING DATE January 4, 2002		GROUP 2822		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
			ZHAO et al. TIA13 FORMATION BY FURNACE ANNEALING OF Ti/Al BILAYERS AND THE EFFECT OF IMPURITIES				
			April 15, 1988, J. Appl. Phys pages 2800-2807.				
			VOUTSAS et al. STRUCTURE ENGINEERING FOR HILLOCK-FREE PURE ALUMINUM, etc.. July/Aug. 1998				
			J. Vac. Sci. Technol. pages 2668-2670.				
			KIM et al. "CREEP-CONTROLLED DIFFUSIONAL HILLOCK FORMATION IN BLANKET, etc., August 2000,				
			Journal of Materials Research, Vol. 15, Issue 8, pages 1709-1718.				
			LIU et al. FORMATION OF INTERMETALLIC NANOCOMPOSITES IN THE TIALSI SYSTEM BY MECHANICAL, etc..				
			May 1998, Journal of Materials Research, Vol. 13, Issue 5, pages 1198-1203.				
EXAMINER				DATE CONSIDERED			